Frank L Powell

List of Publications by Year
in descending order

45 papers	904 citations	471061 17 h-index	500791 28 g-index
77 all docs	77 docs citations	77 times ranked	1007 citing authors

#	Article	IF	Citations
1	The influence of chronic hypoxia upon chemoreception. Respiratory Physiology and Neurobiology, 2007, 157, 154-161.	0.7	97
2	Time Domains of the Hypoxic Ventilatory Response and Their Molecular Basis. , 2016, 6, 1345-1385.		97
3	Notch Activation of Ca²⁺ Signaling in the Development of Hypoxic Pulmonary Vasoconstriction and Pulmonary Hypertension. American Journal of Respiratory Cell and Molecular Biology, 2015, 53, 355-367.	1.4	86
4	HIF-1 and ventilatory acclimatization to chronic hypoxia. Respiratory Physiology and Neurobiology, 2008, 164, 282-287.	0.7	51
5	Glutamate receptors in the nucleus tractus solitarius contribute to ventilatory acclimatization to hypoxia in rat. Journal of Physiology, 2014, 592, 1839-1856.	1.3	46
6	The impact of inflammation on respiratory plasticity. Experimental Neurology, 2017, 287, 243-253.	2.0	46
7	Six Percent Oxygen Enrichment of Room Air at Simulated 5000 m Altitude Improves Neuropsychological Function. High Altitude Medicine and Biology, 2000, 1, 51-61.	0.5	45
8	Functional Genomics and the Comparative Physiology of Hypoxia. Annual Review of Physiology, 2003, 65, 203-230.	5.6	42
9	Cognitive function and mood at high altitude following acclimatization and use of supplemental oxygen and adaptive servoventilation sleep treatments. PLoS ONE, 2019, 14, e0217089.	1.1	37
10	Nocturnal Oxygen Enrichment of Room Air at 3800 Meter Altitude Improves Sleep Architecture. High Altitude Medicine and Biology, 2001, 2, 525-533.	0.5	35
11	Minocycline blocks glial cell activation and ventilatory acclimatization to hypoxia. Journal of Neurophysiology, 2017, 117, 1625-1635.	0.9	35
12	Ultrastructure of the glomus cells in the carotid body of chronically hypoxic rats: With special reference to the similarity of amphibian glomus cells. The Anatomical Record, 1993, 237, 220-227.	2.3	31
13	Nocturnal O2 Enrichment of Room Air at High Altitude Increases Daytime O2 Saturation Without Changing Control of Ventilation. High Altitude Medicine and Biology, 2000, 1, 197-206.	0.5	25
14	Adaptive Servoventilation as Treatment for Central Sleep Apnea Due to High-Altitude Periodic Breathing in Nonacclimatized Healthy Individuals. High Altitude Medicine and Biology, 2018, 19, 178-184.	0.5	25
15	Oxygen Sensing in the Brain â€“ Invited Article. Advances in Experimental Medicine and Biology, 2009, 648, 369-376.	0.8	24
16	Ibuprofen Blunts Ventilatory Acclimatization to Sustained Hypoxia in Humans. PLoS ONE, 2016, 11, e0146087.	1.1	22
17	Cardiac responses to hypoxia and reoxygenation in Drosophila. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 309, R1347-R1357.	0.9	19
18	Neuronal HIFâ€1Î± in the nucleus tractus solitarius contributes to ventilatory acclimatization to hypoxia. Journal of Physiology, 2020, 598, 2021-2034.	1.3	19

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19	Breathing in thin air: acclimatization to altitude in ducks. Respiratory Physiology and Neurobiology, 2004, 144, 225-235.	0.7	18
20	The effect of combined glutamate receptor blockade in the NTS on the hypoxic ventilatory response in awake rats differs from the effect of individual glutamate receptor blockade. Physiological Reports, 2014, 2, e12092.	0.7	16
21	No evidence of a role for neuronal nitric oxide synthase in the nucleus tractus solitarius in ventilatory responses to acute or chronic hypoxia in awake rats. Journal of Applied Physiology, 2015, 118, 750-759.	1.2	12
22	Comparative Physiology of Lung Complexity: Implications for Gas Exchange. Physiology, 2004, 19, 55-60.	1.6	11
23	Transcriptomic analysis identifies a role of PI3Kâ€“Akt signalling in the responses of skeletal muscle to acute hypoxia in vivo. Journal of Physiology, 2017, 595, 5797-5813.	1.3	10
24	Impacts of Changes in Atmospheric O2 on Human Physiology. Is There a Basis for Concern?. Frontiers in Physiology, 2021, 12, 571137.	1.3	10
25	Relationships Between Chemoreflex Responses, Sleep Quality, and Hematocrit in Andean Men and Women. Frontiers in Physiology, 2020, 11, 437.	1.3	10
26	Studying biological responses to global change in atmospheric oxygen. Respiratory Physiology and Neurobiology, 2010, 173, S6-S12.	0.7	7
27	Measuring the respiratory chemoreflexes in humans by J. Duffin. Respiratory Physiology and Neurobiology, 2012, 181, 44-45.	0.7	7
28	Lake Louise Consensus Methods for Measuring the Hypoxic Ventilatory Response. , 2006, 588, 271-276.		7
29	Computational model of brain-stem circuit for state-dependent control of hypoglossal motoneurons. Journal of Neurophysiology, 2018, 120, 296-305.	0.9	4
30	Foreword. Respiratory Physiology and Neurobiology, 2011, 178, 359-361.	0.7	3
31	A Protocol to Collect Specific Mouse Skeletal Muscles for Metabolomics Studies. Methods in Molecular Biology, 2015, 1375, 169-179.	0.4	2
32	Chronic hypoxia decreases response to central chemoreceptor stimulation in the nucleus tractus solitarius (NTS). FASEB Journal, 2009, 23, 621.16.	0.2	2
33	Serotonin and Adenosine G-protein Coupled Receptor Signaling for Ventilatory Acclimatization to Sustained Hypoxia. Frontiers in Physiology, 2018, 9, 860.	1.3	1
34	Chronic Hypoxia (CHx) Suppresses the Chemosensitive Response of Individual Nucleus Tractus Solitarius (NTS) Neurons from Adult Rats. FASEB Journal, 2008, 22, 1172.1.	0.2	1
35	Increased Levels of Interleukinâ€6 (ILâ€6) in Andean Males with Chronic Mountain Sickness and Seaâ€Level Participants After One Day at High Altitude May Reflect Differences in ILâ€6 Regulation. FASEB Journal, 2018, 32, lb479.	0.2	1
36	Commentary on: â€œMajor differences in the pulmonary circulation of birds and mammalsâ€•by John B. West, Rebecca R. Watson and Zhenxing Fu. Respiratory Physiology and Neurobiology, 2007, 157, 391-392.	0.7	0

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37	Nonâ€NMDA receptor activation in the Nucleus Tractus Solitarius (NTS) increases ventilatory drive. FASEB Journal, 2008, 22, 954.5.	0.2	0
38	The effect of chronic ibuprofen treatment on ventilatory acclimatization to hypoxia. FASEB Journal, 2010, 24, 1026.24.	0.2	0
39	Paracrine erythropoietin (EPO) signaling and antiâ€apoptosis in the lungs of guinea pigs exposed to high altitude (HA). FASEB Journal, 2011, 25, 861.10.	0.2	0
40	Effects of nonâ€steroid antiâ€inflammatory drugs on the human hypoxic ventilatory response and acclimatization. FASEB Journal, 2012, 26, 1150.2.	0.2	0
41	HIFâ€1a gene deletion in the nucleus tractus solitarii (NTS) blunts ventilatory acclimatization to hypoxia (VAH). FASEB Journal, 2012, 26, 704.15.	0.2	0
42	Ibuprofen does not reverse timeâ€dependent increase in hypoxic ventilation in chronically hypoxic rats. FASEB Journal, 2013, 27, 721.5.	0.2	0
43	Astrocyteâ€specific deletion of Kir4.1 increases normoxic ventilation after acclimatization to chronic sustained hypoxia.. FASEB Journal, 2018, 32, 625.14.	0.2	0
44	Excessive erythrocytosis in highâ€altitude residents is associated with modest impairments in shortâ€term memory and processing speed. FASEB Journal, 2019, 33, 551.2.	0.2	0
45	Tibetans resident at intermediate altitude (1300 m, 4327 ft) show similar hypoxic ventilatory responses but blunted heart rate responses to poikilocapnic hypoxia. FASEB Journal, 2020, 34, 1-1.	0.2	0